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(formerly TSRI 184.2C2)

b) antigen-specific immunoglobulin single polypeptide product encoded by said nucleotide sequences, wherein said leader sequence is cleaved from said polypeptide product following proteolytic processing and assembly.

83. (Amended) A plant, comprising plant cells containing:

a) nucleotide sequence encoding an immunoglobulin single polypeptide product containing an immunoglobulin heavy chain polypeptide, wherein said nucleotide sequence encodes a leader sequence forming a secretion signal for said single polypeptide product, said heavy chain derived from an antigen-specific immunoglobulin comprising a heavy and light chain, and said single polypeptide product being capable of forming an antigen-specific immunoglobulin when co-expressed in the same cell with said light chain from said antigen-specific immunoglobulin; and

b) immunoglobulin single polypeptide product encoded by said nucleotide sequences, wherein said leader sequence is cleaved from said polypeptide product following proteolytic processing of said single polypeptide product.

REMARKS

Claim 43 and 83 have been amended herein to further characterize what Applicants' regard as their invention. A version of the claims showing the location and nature of any additions or deletions is attached under the heading "VERSION WITH MARKINGS TO SHOW CHANGES MADE." After amending the claims as set forth above, claims 43, 44, 48, 53, 57-59, 79, 81-90 and 93-99 will be pending in this application.

Claim 43 as amended is directed to a plant, comprising plant cells containing nucleotide sequences encoding an antigen-specific immunoglobulin single polypeptide product containing at least an immunoglobulin heavy chain polypeptide or portion thereof and an immunoglobulin light chain or portion thereof and a peptide linker therebetween, wherein the nucleotide sequences encode a leader sequence forming a secretion signal for the single polypeptide product. Also required is for the plant cells to contain antigen-specific immunoglobulin single polypeptide product encoded by the nucleotide sequences wherein the leader sequence is cleaved from the polypeptide product following proteolytic processing. The added language "and a peptide linker therebetween" explicitly identifies